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Gly Ser Thr Ala Glu Arg Ser Leu Gly His Arg Gly Trp Gly Leu Pro
1970 1975 1980

Lys Ala Gln Ser Gly Ser Ile Leu Ser Val His Ser Gln Pro Ala Asp
1985 1990 1995 2000

Thr Ser Cys Ile Leu Gln Leu Pro Lys Asp Val His Tyr Leu Leu Gln
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Pro His Gly Ala Pro Thr Trp Gly Ala Ile Pro Lys Leu Pro Pro Pro
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Phe Trp Gly Gly Ser Ser Ile Gln Val Gln Gln Arg Ser Gly Ile Gln
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Ser Lys Val Ser Lys His Ile Arg Leu Pro Ala Pro Cys Pro Gly Leu
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Arg Asn Arg Cys Phe Leu Pro Glu Asn Phe Ser Leu Pro Leu Ser Val			
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Asp Leu Glu Pro Tyr Tyr Gln Thr Glu Asn Glu Asp Glu Ser Pro Phe			
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Ile Cys Ser Gln Pro Arg Glu Asn Gly Met Arg Ser Cys Arg Ser Val			
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Pro Thr Leu Arg Gly Glu Gly Gly Pro Pro Cys Ser Leu Asp			
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Gln Tyr Tyr Thr Asn Cys Ser Ala Gly Glu His Asn Pro Phe Lys Gly			
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Ala His Ser Phe Tyr Asn Phe Ile Tyr Phe Ile Leu Leu Ile Ile Val
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Gly Ser Phe Phe Met Ile Asn Leu Cys Leu Val Val Ile Ala Thr Gln
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Phe Ser Glu Thr Lys Gln Arg Glu Ser Gln Leu Met Arg Glu Gln Arg
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Val Arg Phe Leu Ser Asn Ala Ser Thr Leu Ala Ser Phe Ser Glu Pro
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Leu Val His His His His His His His Tyr His Leu Gly Asn
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Pro Ser Gly Gly Pro Pro Arg Gly Ala Glu Ser Val His Ser Phe Tyr
595 600 605

His Ala Asp Cys His Leu Glu Pro Val Arg Cys Gln Ala Pro Pro Pro
610 615 620

Arg Cys Pro Ser Glu Ala Ser Gly Arg Thr Val Gly Ser Gly Lys Val
625 630 635 640

Tyr Pro Thr Val His Thr Ser Pro Pro Pro Glu Ile Leu Lys Asp Lys
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Ala Leu Val Glu Val Ala Pro Ser Pro Gly Pro Pro Thr Leu Thr Ser
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Phe Asn Ile Pro Pro Gly Pro Phe Ser Ser Met His Lys Leu Leu Glu
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Thr Gln Ser Thr Gly Ala Cys His Ser Ser Cys Lys Ile Ser Ser Pro
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Cys Ser Lys Ala Asp Ser Gly Ala Cys Gly Pro Asp Ser Cys Pro Tyr
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Pro Asp Ser Asp Ser Glu Ala Val Tyr Glu Phe Thr Gln Asp Ala Gln
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755 760 765

Gly Pro Asp Ala Glu Pro Ser Ser Val Leu Ala Phe Trp Arg Leu Ile
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 Gly Asn Leu Ser Lys Gly Glu Arg Ile Gln Ala Trp Val Arg Ser Arg
 1285 1290 1295

 Leu Pro Ala Cys Cys Arg Glu Arg Asp Ser Trp Ser Ala Tyr Ile Phe
 1300 1305 1310

 Pro Pro Gln Ser Arg Phe Arg Leu Leu Cys His Arg Ile Ile Thr His
 1315 1320 1325

 Lys Met Phe Asp His Val Val Leu Val Ile Ile Phe Leu Asn Cys Ile
 1330 1335 1340

 Thr Ile Ala Met Glu Arg Pro Lys Ile Asp Pro His Ser Ala Glu Arg
 1345 1350 1355 1360

 Ile Phe Leu Thr Leu Ser Asn Tyr Ile Phe Thr Ala Val Phe Leu Ala
 1365 1370 1375

 Glu Met Thr Val Lys Val Val Ala Leu Gly Trp Cys Phe Gly Glu Gln
 1380 1385 1390

 Ala Tyr Leu Arg Ser Ser Trp Asn Val Leu Asp Gly Leu Leu Val Leu
 1395 1400 1405

 Ile Ser Val Ile Asp Ile Leu Val Ser Met Val Ser Asp Ser Gly Thr
 1410 1415 1420

 Lys Ile Leu Gly Met Leu Arg Val Leu Arg Leu Leu Arg Thr Leu Arg
 1425 1430 1435 1440

Pro Leu Arg Val Ile Ser Arg Ala Gln Gly Leu Lys Leu Val Val Glu
 1445 1450 1455

 Thr Leu Met Ser Ser Leu Lys Pro Ile Gly Asn Ile Val Val Ile Cys
 1460 1465 1470

 Cys Ala Phe Phe Ile Ile Phe Gly Ile Leu Gly Val Gln Leu Phe Lys
 1475 1480 1485

 Gly Lys Phe Phe Val Cys Gln Gly Glu Asp Thr Arg Asn Ile Thr Asn
 1490 1495 1500

 Lys Ser Asp Cys Ala Glu Ala Ser Tyr Arg Trp Val Arg His Lys Tyr
 1505 1510 1515 1520

 Asn Phe Asp Asn Leu Gly Gln Ala Leu Met Ser Leu Phe Val Leu Ala
 1525 1530 1535

 Ser Lys Asp Gly Trp Val Asp Ile Met Tyr Asp Gly Leu Asp Ala Val
 1540 1545 1550

 Gly Val Asp Gln Gln Pro Ile Met Asn His Asn Pro Trp Met Leu Leu
 1555 1560 1565

 Tyr Phe Ile Ser Phe Leu Leu Ile Val Ala Phe Phe Val Leu Asn Met
 1570 1575 1580

 Phe Val Gly Val Val Val Glu Asn Phe His Lys Cys Arg Gln His Gln
 1585 1590 1595 1600

 Glu Glu Glu Ala Arg Arg Glu Glu Lys Arg Leu Arg Arg Leu
 1605 1610 1615

 Glu Lys Lys Arg Arg Asn Leu Met Leu Asp Asp Val Ile Ala Ser Gly
 1620 1625 1630

 Ser Ser Ala Ser Ala Ala Ser Glu Ala Gln Cys Lys Pro Tyr Tyr Ser
 1635 1640 1645

 Asp Tyr Ser Arg Phe Arg Leu Leu Val His His Leu Cys Thr Ser His
 1650 1655 1660

 Tyr Leu Asp Leu Phe Ile Thr Gly Val Ile Gly Leu Asn Val Val Thr
 1665 1670 1675 1680

 Met Ala Met Glu His Tyr Gln Gln Pro Gln Ile Leu Asp Glu Ala Leu
 1685 1690 1695

Lys Ile Cys Asn Tyr Ile Phe Thr Val Ile Phe Val Phe Glu Ser Val
 1700 1705 1710

 Phe Lys Leu Val Ala Phe Gly Phe Arg Arg Phe Phe Gln Asp Arg Trp
 1715 1720 1725

 Asn Gln Leu Asp Leu Ala Ile Val Leu Leu Ser Ile Met Gly Ile Thr
 1730 1735 1740

 Leu Glu Glu Ile Glu Val Asn Ala Ser Leu Pro Ile Asn Pro Thr Ile
 1745 1750 1755 1760

 Ile Arg Ile Met Arg Val Leu Arg Ile Ala Arg Val Leu Lys Leu Leu
 1765 1770 1775

 Lys Met Ala Val Gly Met Arg Ala Leu Leu Asp Thr Val Met Gln Ala
 1780 1785 1790

 Leu Pro Gln Val Gly Asn Leu Gly Leu Leu Phe Met Leu Leu Phe Phe
 1795 1800 1805

 Ile Phe Ala Ala Leu Gly Val Glu Leu Phe Gly Asp Leu Glu Cys Asp
 1810 1815 1820

 Glu Thr His Pro Cys Glu Gly Leu Gly Arg His Ala Thr Phe Arg Asn
 1825 1830 1835 1840

 Phe Gly Met Ala Phe Leu Thr Leu Phe Arg Val Ser Thr Gly Asp Asn
 1845 1850 1855

 Trp Asn Gly Ile Met Lys Asp Thr Leu Arg Asp Cys Asp Gln Glu Ser
 1860 1865 1870

 Thr Cys Tyr Asn Thr Val Ile Ser Pro Ile Tyr Phe Val Ser Phe Val
 1875 1880 1885

 Leu Thr Ala Gln Phe Val Leu Val Asn Val Val Ile Ala Val Leu Met
 1890 1895 1900

 Lys His Leu Glu Glu Ser Asn Lys Glu Ala Lys Glu Glu Ala Glu Leu
 1905 1910 1915 1920

 Glu Ala Glu Leu Glu Leu Glu Met Lys Thr Leu Ser Pro Gln Pro His
 1925 1930 1935

 Ser Pro Leu Gly Ser Pro Phe Leu Trp Pro Gly Val Glu Gly Val Asn
 1940 1945 1950

Ser Pro Asp Ser Pro Lys Pro Gly Ala Pro His Thr Thr Ala His Ile
1955 1960 1965

Gly Ala Ala Ser Gly Phe Ser Leu Glu His Pro Thr Met Val Pro His
1970 1975 1980

Pro Glu Glu Val Pro Val Pro Leu Gly Pro Asp Leu Leu Thr Val Arg
1985 1990 1995 2000

Lys Ser Gly Val Ser Arg Thr His Ser Leu Pro Asn Asp Ser Tyr Met
2005 2010 2015

Cys Arg Asn Gly Ser Thr Ala Glu Arg Ser Leu Gly His Arg Gly Trp
2020 2025 2030

Gly Leu Pro Lys Ala Gln Ser Gly Ser Ile Leu Ser Val His Ser Gln
2035 2040 2045

Pro Ala Asp Thr Ser Cys Ile Leu Gln Leu Pro Lys Asp Val His Tyr
2050 2055 2060

Leu Leu Gln Pro His Gly Ala Pro Thr Trp Gly Ala Ile Pro Lys Leu
2065 2070 2075 2080

Pro Pro Pro Gly Arg Ser Pro Leu Ala Gln Arg Pro Leu Arg Arg Gln
2085 2090 2095

Ala Ala Ile Arg Thr Asp Ser Leu Asp Val Gln Gly Leu Gly Ser Arg
2100 2105 2110

Glu Asp Leu Leu Ser Glu Val Ser Gly Pro Ser Cys Pro Leu Thr Arg
2115 2120 2125

Ser Ser Ser Phe Trp Gly Gly Ser Ser Ile Gln Val Gln Gln Arg Ser
2130 2135 2140

Gly Ile Gln Ser Lys Val Ser Lys His Ile Arg Leu Pro Ala Pro Cys
2145 2150 2155 2160

Pro Gly Leu Glu Pro Ser Trp Ala Lys Asp Pro Pro Glu Thr Arg Ser
2165 2170 2175

Ser Leu Glu Leu Asp Thr Glu Leu Ser Trp Ile Ser Gly Asp Leu Leu
2180 2185 2190

Pro Ser Ser Gln Glu Glu Pro Leu Ser Pro Arg Asp Leu Lys Lys Cys
2195 2200 2205

Tyr Ser Val Glu Thr Gln Ser Cys Arg Arg Arg Pro Gly Ser Trp Leu
2210 2215 2220

Asp Glu Gln Arg Arg His Ser Ile Ala Val Ser Cys Leu Asp Ser Gly
2225 2230 2235 2240

Ser Gln Pro Arg Leu Cys Pro Ser Pro Ser Ser Leu Gly Gly Gln Pro
2245 2250 2255

Leu Gly Gly Pro Gly Ser Arg Pro Lys Lys Lys Leu Ser Pro Pro Ser
2260 2265 2270

Ile Ser Ile Asp Pro Pro Glu Ser Gln Gly Ser Arg Pro Pro Cys Ser
2275 2280 2285

Pro Gly Val Cys Leu Arg Arg Ala Pro Ala Ser Asp Ser Lys Asp
2290 2295 2300

Pro Ser Val Ser Ser Pro Leu Asp Ser Thr Ala Ala Ser Pro Ser Pro
2305 2310 2315 2320

Lys Lys Asp Thr Leu Ser Leu Ser Gly Leu Ser Ser Asp Pro Thr Asp
2325 2330 2335

Met Asp Pro Val Leu Pro Thr Leu Pro His His Leu Ser Pro Pro Gly
2340 2345 2350

Ala Asp Pro Ser Ser Ala Ser Trp Ala Ala Phe Leu Lys Ser Pro Thr
2355 2360 2365

Ala Ala Ser Ser His Glu Ala Pro His Leu Pro Ser Ser Val Ala Gly
2370 2375 2380

Gly Asp Asp Glu Gln Asn Phe Arg Arg Val Asp Leu Lys Arg Thr Gln
2385 2390 2395 2400

Pro Trp Ser Pro Cys Leu Arg Glu Glu Gly Lys Gly Glu Ser Pro Val
2405 2410 2415

Trp Pro Arg Leu Pro Thr Pro Gly Ala
2420 2425

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<213> Rattus sp.

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Sequence

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<222> (2)
<223> nucleotide is unknown - A or T or C or G

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17

<210> 7
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Sequence

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18

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Sequence

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25

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Sequence

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18

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18

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agcggggcgcc gaggagtcgg gacagccccg tagcttcacg cagctcaacg acctgtccgg 180
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tggagcggggc gcccggggact cgggacagcc ccgttagcttc acgcagctca acgcacctgtc 180
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21

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<400> 15

ttggcttcc

9

<210> 16

<211> 54

<212> DNA

<213> Rattus sp.

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cont

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54